

IN THE CLAIMS

Please amend claims 1, 21, and 35. All pending claims are reproduced below.

1. (Currently amended) A computer implemented method for handling database requests for client systems over a network, the method comprising:
receiving at the master control module from a request handler a database request of a client;
determining by the master control module an assigned database server for handling the database request from a group of available database servers;
prompting by the master control module the assigned database server to load a database corresponding to the database request;
providing by the master control module information regarding the assigned database server to the request handler for the request handler to directly provide the database request to the assigned database server for handling the database request.

2. (Previously presented) The method of claim 1, wherein determining by the master control module the assigned database server for handling the database request from the group of available database servers further comprises:

determining that the database request is a request to create a database;
generating a database identifier for the database; and
mapping the database to the assigned database server using the database identifier.

3. (Previously presented) The method of claim 2, further comprising:
receiving by the master control module a subsequent database request containing the database identifier;
using by the master control module the database identifier to determine the assigned database server; and

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providing by the master control module the subsequent database request to the assigned database server for handling the subsequent database request.

4. (Previously presented) The method of claim 1, wherein determining by the master control module the assigned database server for handling the database request from the group of available database servers further comprises:

responsive to determining that there is no database server assigned to handle the database request,

assigning a selected database server from the group of available database servers as the assigned database server; and

updating a mapping of previously created databases to their respective database servers to include the assignment of the selected database server to the database.

5. (Previously presented) The method of claim 1, further comprising:

responsive to a failure in the handling of the database request by the assigned database server,

assigning by the master control module the database request to an alternative database server selected from the group of available database servers;

and

providing by the master control module the database request to the alternative database server for handling the database request.

6. (Previously presented) The method of claim 1, further comprising:

responsive to an elapsed time for the handling of the database request by the assigned database server exceeding a threshold,

instructing by the master control module the assigned database server to terminate the handling of the database request;

assigning by the master control module the database request to an alternative database server selected from the group of available database servers; and

providing by the master control module the database request to the alternative database server for handling the database request.

7. (Previously presented) The method of claim 1, further comprising:

maintaining location information for a plurality of request making clients corresponding to a particular database associated with the database request;

assigning by the master control module the database request to an alternative database server selected from the group of available database servers by analyzing the location information for the plurality of request making clients; and

providing by the master control module the database request to the alternative database server for handling the database request.

8. (Original) The method of claim 7, wherein the alternative database server is assigned based upon a determination that a substantial number of the request making clients are located closer to the alternative database server than the assigned database server.

9. (Previously presented) The method of claim 1, further comprising:

assigning by the master control module the database request to an alternative database server selected from the group of available database servers, based upon a comparison of a first expected load on the assigned database server and a second expected load on the alternative database server.

10. (Previously presented) The method of claim 1, further comprising:
assigning by the master control module the database request to an alternative
database server selected from the group of available database servers;
and
providing by the master control module the database request to the alternative
database server for handling the database request.

11. (Previously presented) A system for handling database requests for client
systems over a network, the system comprising:
a request handling module for receiving from a client a database request;
a plurality of database servers for receiving and handling database requests; and
a master control module, in direct communication with the request handling
module and the plurality of database servers, for receiving the database
request from the request handling module, determining an assigned
database server from the plurality of database servers for handling the
database request, prompting the assigned database server to load a
database corresponding to the database request, and providing
information regarding the assigned database server to the request
handling module for the request handling module to directly provide the
database request to the assigned database server.

12. (Previously presented) The system of claim 11, wherein the master control
module determines the assigned database server from the plurality of database servers
by determining that the database request is a request to create a database, generating a
database identifier for the database, and mapping the database to the assigned database
server using the database identifier.

13. (Original) The system of claim 12, wherein the master control module receives a subsequent database request containing the database identifier, uses the database identifier to determine the assigned database server, and provides the subsequent database request to the assigned database server for handling the subsequent database request.

14. (Previously presented) The system of claim 11, wherein the master control module determines the assigned database server from the plurality of database servers by determining that there is no database server assigned to handle the database request, assigning a selected database server from the plurality of database servers as the assigned database server, and updating a mapping of previously created databases to their respective database servers to include the assignment of the selected database server to the database.

15. (Previously presented) The system of claim 11, wherein the master control module responds to a failure in handling the database request by the assigned database server by assigning the database request to an alternative database server selected from the plurality of database servers, and identifying the alternative database server to the request handling module responsive to the database request.

16. (Previously presented) The system of claim 11, wherein the master control module assigns the database request to an alternative database server selected from the plurality of database servers, and identifies the alternative database server to the request handling module responsive to the database request.

17. (Previously presented) The system of claim 11, wherein the request handling module responds to an elapsed time for handling the database request by the assigned database server exceeding a threshold by instructing the assigned database server to terminate the handling of the database request, and wherein the master control module then assigns the database request to an alternative database server selected from the plurality of database servers.

18. (Original) The system of claim 11, wherein the master control module maintains location information for a plurality of request making clients corresponding to a particular database associated with the database request, and assigns the database request to an alternative database server selected from the plurality of database servers by analyzing the location information for the plurality of request making clients.

19. (Original) The system of claim 18, wherein the alternative database server is assigned based upon a determination that a substantial number of the request making clients are located closer to the alternative database server than the assigned database server.

20. (Original) The system of claim 11, wherein the master control module assigns the database request to an alternative database server selected from the plurality of database servers, based upon a comparison of a first expected load on the assigned database server and a second expected load on the alternative database server.

21. (Currently amended) A method for handling database requests for client systems over a network, the method comprising:
communicating by the a master control module directly with a plurality of database servers, for prompting the database servers to load databases

the master control module assigning a previously existing database to an assigned database server selected from the plurality of database servers; receiving by the master control module a set of information about a database request from a request handler; determining by the master control module from the set of information that the assigned database server corresponds to the database request; and sending by the master control module an identification of the assigned database server to the request handler.

22. (Original) The method of claim 21, wherein the set of information about the database request includes a database identifier for the previously existing database, and the database identifier is used to determine that the previously existing database corresponds to the assigned database server.

23. (Previously presented) The method of claim 21, wherein assigning the databases to the database servers further comprises:
responsive to determining that the previously existing database is not currently assigned to a database server,
assigning a selected database server from the plurality of database servers as the assigned database server; and
updating a mapping that correlates previously created databases to their respective database servers to include the assignment of the selected database server to the previously existing database.

24. (Previously presented) The method of claim 21, further comprising:
assigning by the master control module the database request to an alternative database server selected from the plurality of database servers; and

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identifying by the master control module the alternative database server to the request handler.

25. (Previously presented) The method of claim 21, further comprising:
maintaining location information for a plurality of request making clients
corresponding to the previously existing database; and
assigning by the master control module the database request to an alternative
database server selected from the plurality of database servers by
analyzing the location information for the plurality of request making
clients.

26. (Original) The method of claim 25, wherein the alternative database server is assigned based upon a determination that a substantial number of the plurality of request making clients are located closer to the alternative database server than the assigned database server.

27. (Previously presented) The method of claim 21, further comprising:
assigning by the master control module the database request to an alternative
database server selected from the plurality of database servers, based
upon a comparison of a first expected load on the assigned database
server and a second expected load on the alternative database server.

28. (Previously presented) An apparatus for handling database requests for client systems over a network, the apparatus comprising:
a database server managing module, communicating directly with a plurality of
database servers, for prompting the database servers to load databases
the database server managing module assigning a previously existing

database to an assigned database server selected from the plurality of database servers and determining that the assigned database server corresponds to a database request by examining a set of information about the database request; and

a request handler communications module, for receiving the set of information about the database request from the request handler, and sending an identification of the assigned database server to the request handler.

29. (Original) The apparatus of claim 28, wherein the set of information about the database request includes a database identifier for the previously existing database, and the database identifier is used to determine that the previously existing database corresponds to the assigned database server.

30. (Previously presented) The apparatus of claim 28, wherein the database server managing module assigns the databases to the database servers by determining that the previously existing database is not currently assigned to a database server, assigning a selected database server from the plurality of database servers as the assigned database server, and updating a set of database identifiers that correlate previously created databases to their respective database servers to include the assignment of the selected database server to the previously existing database.

31. (Previously presented) The apparatus of claim 28, wherein the database server managing module assigns the database request to an alternative database server selected from the plurality of database servers, and wherein the request handler communications module identifies the alternative database server to the request handler.

32. (Previously presented) The apparatus of claim 28, further comprising:
a database assignment module, in communication with the database server
managing module, for maintaining location information for a plurality of
request making clients corresponding to a particular database, and
assigning the database request to an alternative database server selected
from the plurality of database servers by analyzing the location
information for the plurality of request making clients.

33. (Original) The apparatus of claim 32, wherein the alternative database server
is assigned based upon a determination that a substantial number of the request making
clients are located closer to the alternative database server than the assigned database
server.

34. (Previously presented) The apparatus of claim 28, further comprising:
a database assignment module, in communication with the database server
managing module, for assigning the database request to an alternative database server
selected from the plurality of database servers, based upon a comparison of a first
expected load on the assigned database server and a second expected load on the
alternative database server.

35. (Currently amended) A computer program product for a master control
module, for handling database requests for client systems over a network, the computer
program product stored on a computer readable medium and adapted to perform
operations comprising:

communicating by the master control module directly with a plurality of
database servers, for prompting the database servers to load databases

the master control module assigning a previously existing database to an assigned database server selected from the plurality of database servers; receiving by the master control module a set of information about a database request from the request handler; determining by the master control module from the set of information that the assigned database server corresponds to the database request; and sending by the master control module an identification of the assigned database server to the request handler.

36. (Original) The computer program product of claim 35, wherein the set of information about the database request includes a database identifier for the previously existing database, and the database identifier is used to determine that the previously existing database corresponds to the assigned database server.

37. (Previously presented) The computer program product of claim 35, wherein assigning the databases to the database servers further comprises:
responsive to determining that the previously existing database is not currently assigned to a database server,
assigning a selected database server from the plurality of database servers as the assigned database server; and
updating a persistent set of database identifiers that correlate previously created databases to their respective database servers to include the assignment of the selected database server to the previously existing database.

38. (Previously presented) The computer program product of claim 35, wherein the operations further comprise:

assigning by the master control module the database request to an alternative database server selected from the plurality of database servers and identifying by the master control module the alternative database server to the request handler.

39. (Previously presented) The computer program product of claim 35, wherein the operations further comprise:

maintaining location information for a plurality of request making clients corresponding to the previously existing database; and
assigning by the master control module the database request to an alternative database server selected from the plurality of database servers by analyzing the location information for the plurality of request making clients.

40. (Original) The computer program product of claim 39, wherein the alternative database server is assigned based upon a determination that a substantial number of the plurality of request making clients are located closer to the alternative database server than the assigned database server.

41. (Previously presented) The computer program product of claim 35, wherein the operations further comprise:

assigning by the master control module the database request to an alternative database server selected from the plurality of database servers, based upon a comparison of a first expected load on the assigned database server and a second expected load on the alternative database server.

42. (Previously presented) The computer program product of claim 35, wherein
the operations further comprise:

assigning by the master control module the database request to an alternative
database server selected from the plurality of database servers based upon a failure in
handling the database request by the assigned database server.